

**Flood Control Project Maintenance
Levee Inspections**

Fall 2015 Levee Maintenance Deficiency Summary Report

Overall LMA & Unit Ratings, including DWR Erosion Survey

San Joaquin River Basin

RD2092	Overall LMA Rating	Total LMA Miles						
Reclamation District No. 2092 Dos Rios	A	3.71						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Encroachments					1.16			
Animal Control	0.03		0.03	0.81%				
<i>Supplemental</i>								
DWR UCIP Field Study					0.09			
<i>LMA Totals:</i>	0.03	0.00	0.03	0.81%	1.25	0.00	0.00	0.00

**Flood Control Project Maintenance
Levee Inspections**
LMA District Cover Sheet
Fall 2015 Levee Inspection Results

Reclamation District No. 2092 Dos Rios

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
* Overall LMA Rating (Fall Only)			A	

** Non-receipt of Summer or Winter Inspection Reports may effect overall annual rating.

*
SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indication of risk.

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2015 Levee Inspection Results

Reclamation District No. 2092 Dos Rios

Waterway			Bank	Unit Miles
Unit No. 01 San Joaquin River			Right	3.71
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	04/02/2015 - 04/02/2015		10/22/2015 - 10/22/2015	
DWR Inspector	Pavel Kazi		Pavel Kazi	
Accompanied By	Stuart Mattos		Stuart Mattos	

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 2092 Dos Rios

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	3.71	10/22/2015 10/22/2015	Pavel Kazi

LM Start	0.00	Rating **	A	Issue No.	18
LM End	0.00	Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Flood Preparedness & Training				°
					°
DWR ID	DWR_RD2092_01_f_2012_18				
Action/Comments					
Inspector Comments: River Partner crews will attend the upcoming flood fighting class offered in their area. A few members of the company have already been through a few flood events and received proper training.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	24
LM End	0.00	Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Operations & Maintenance Manuals				°
					°
DWR ID	DWR_RD2092_01_s_2012_24				
Action/Comments					
Inspector Comments: They have the latest O&M manual for their district.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	26		
LM End	0.00	Issue Type +	Ma	Location *	N/A		
Category	Earthen Levee			GPS Latitude/Longitude			
				Start		End	
Item	Emergency Supplies & Equipment				°		°
					°		°
DWR ID	DWR_RD2092_01_s_2012_26						
Action/Comments							
Inspector Comments: LMA has adequate flood fighting supplies.							

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 2092 Dos Rios

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	3.71	10/22/2015 10/22/2015	Pavel Kazi

LM Start	0.18	Rating **	M	Issue No.	973
LM End	0.18	Issue Type +	En	Location *	N/A
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.602031 °	37.602031 °
				-121.161249 °	-121.161249 °
DWR ID					

Action/Comments

Inspector Comments: FS_ID:27123
 DS_ID:20561
 EP_NO: N/A
 FS_HLM: 0.182
 Repair Type: Non-Urgent
 Crossing Status: Found
 UCIP Comments: Pipe rusted through at headwall on LS toe. Good candidate for video inspection.
 FIELD_STRUCT_DESC: 60-inch corrugated metal drainpipe through levee 19.0 feet below crown. Flap gate on the waterward end. Slide gate in 80-inch corrugated metal pipe riser on the waterward slope. Concrete "U" headwalls on both ends. Originally included in the 1961 O&M manual.
 FS Date: 01/16/2014

LM Start	0.18	Rating **	M	Issue No.	973 (cont)
LM End	0.18	Issue Type +	En	Location *	N/A

Photo 1 of 3 : UCIP_FA_2015_3390.jpg



Flapgate and headwall on WS toe.

Photo 2 of 3 : UCIP_FA_2015_3391.jpg



Concrete headwall on LS toe in front of pump on pier.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 2092 Dos Rios

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	3.71	10/22/2015 10/22/2015	Pavel Kazi

LM Start	0.18	Rating **	M	Issue No.	973 (cont)
LM End	0.18	Issue Type +	En	Location *	N/A
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.602031 °	37.602031 °
				-121.161249 °	-121.161249 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:27123					
DS_ID:20561					
EP_NO: N/A					
FS_HLM: 0.182					
Repair Type: Non-Urgent					
Crossing Status: Found					

Photo 3 of 3 : UCIP_FA_2015_3392.jpg



Slide gate in 80-inch CMP riser on WS slope.

LM Start	0.19	Rating **	M	Issue No.	974
LM End	0.19	Issue Type +	En	Location *	N/A
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.601978 °	37.601978 °
				-121.161370 °	-121.161370 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:20886 DS_ID:20573 EP_NO: 4699 FS_HLM: 0.19 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Appears abandoned and should be verified as having been removed from levee. FIELD_STRUCT_DESC: *Abandoned* 12-inch steel pipe over the levee with 3.5 feet of fill on top. Siphon breakers on waterward shoulder. Pad constructed over pipes. This pumping plant was constructed in 1969 during emergency conditions without a permit. 12-inch pipe debris on WS berm at WS toe. FS Date: 09/24/2013					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 2092 Dos Rios

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	3.71	10/22/2015 10/22/2015	Pavel Kazi

LM Start	0.19	Rating **	M	Issue No.	975
LM End	0.19	Issue Type +	En	Location *	N/A
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.601976 °	37.601976 °
				-121.161395 °	-121.161395 °
DWR ID					

Action/Comments

Inspector Comments: FS_ID:20885
 DS_ID:20579
 EP_NO: 6254
 FS_HLM: 0.191
 Repair Type: Non-Urgent
 Crossing Status: Found
 UCIP Comments: Verify pipe has been removed from levee. Pipe visible on WS at riverbank.
 FIELD_STRUCT_DESC: *Abandoned* 16-inch steel pipe over the levee with 3.5 feet of fill on top. Siphon breakers on waterward shoulder. Pad constructed over pipes. This pumping plant was constructed in 1969 during emergency conditions without a permit (Permit No. 6254, 1968).
 FS Date: 09/24/2013

LM Start	0.19	Rating **	M	Issue No.	975 (cont)
LM End	0.19	Issue Type +	En	Location *	N/A

Photo 1 of 2 : UCIP_FA_2015_1598.jpg



Pipe visible at rivers edge on WS toe.

Photo 2 of 2 : UCIP_FA_2015_1599.jpg



Pipe visible at rivers edge on WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 2092 Dos Rios

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	3.71	10/22/2015 10/22/2015	Pavel Kazi

LM Start	0.42	Rating **	M	Issue No.	28
LM End	0.42	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.601207 °	37.601207 °
				-121.165508 °	-121.165508 °
DWR ID	DWR_RD2092_01_f_2014_28				
Action/Comments					
Pole					

No Photos

LM Start	0.44	Rating **	M	Issue No.	27
LM End	0.44	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.601161 °	37.601161 °
				-121.165805 °	-121.165805 °
DWR ID	DWR_RD2092_01_f_2014_27				
Action/Comments					
Pole					

No Photos

LM Start	0.76	Rating **	M	Issue No.	968
LM End	1.31	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.597291 °	37.590568 °
				-121.168496 °	-121.164028 °
DWR ID	DWR_RD2092_01_s_2012_968				
Action/Comments					
Ditch					

Photo 1 of 1 : FA_2015_RD2092_116_968_20150911_00007.jpg



View of agricultural ditch at the landward toe looking upstream.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 2092 Dos Rios

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	3.71	10/22/2015 10/22/2015	Pavel Kazi

LM Start	1.20	Rating **	M	Issue No.	14
LM End	1.20	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.591406 °	37.591406 °
				-121.165624 °	-121.165624 °
DWR ID	DWR_RD2092_01_f_2015_14				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

Photo 1 of 1 : FA_2015_RD2092_116_14_20151023_00017.jpg



A few rodent holes were found on the waterside shoulder of the levee.

LM Start	1.32	Rating **	C	Issue No.	7
LM End	1.55	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.590479 °	37.587758 °
				-121.163844 °	-121.162349 °
DWR ID	DWR_RD2092_01_s_2012_7				
Action/Comments					
Ditch					

No Photos

LM Start	1.32	Rating **	A/W	Issue No.	10
LM End	1.32	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.590467 °	37.590467 °
				-121.163822 °	-121.163822 °
DWR ID	DWR_RD2092_01_s_2012_10				
Action/Comments					
Pipe Inspector Comments: A sand boil appeared on the landside toe of the levee because of an underground pipe leakage. The pipe and boil have been repaired but should be monitored.					

Photo 1 of 2 : FA_2015_RD2092_116_10_20150911_00003.jpg



During spring inspection 2012, the sand boil was not active but materials were present on the landside toe of the levee. The sand boil occurred due to an underground irrigation pipe leakage. The picture was taken from the crown looking toward the toe of the levee. The area was repaired but should be monitored.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 2092 Dos Rios

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	3.71	10/22/2015 10/22/2015	Pavel Kazi

LM Start	1.32	Rating **	A/W	Issue No.	10 (cont)
LM End	1.32	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.590467 °	37.590467 °
				-121.163822 °	-121.163822 °
DWR ID	DWR_RD2092_01_s _ 2012_10				
Action/Comments					
Pipe Inspector Comments: A sand boil appeared on the landside toe of the levee because of an underground pipe leakage. The pipe and boil have been repaired but should be monitored.					

Photo 2 of 2 : FA_2015_RD2092_116_10_20150911_00004.jpg



A sand boil was found on the landside of the levee. It was caused by a pipe leak couple of feet below the boil location. LMA was notified to repair it as soon as possible. The picture was taken from the crown looking upstream.

LM Start	1.56	Rating **	M	Issue No.	8
LM End	1.84	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.587575 °	37.584057 °
				-121.162454 °	-121.162387 °
DWR ID	DWR_RD2092_01_s _ 2012_8				
Action/Comments					
Ditch					

Photo 1 of 1 : FA_2015_RD2092_116_8_20150911_00002.jpg



View of an agricultural ditch at the waterward toe of the slope.

LM Start	1.65	Rating **	C	Issue No.	17
LM End	1.65	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.586362 °	37.586362 °
				-121.163202 °	-121.163202 °
DWR ID	DWR_RD2092_01_s _ 2015_17				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 2092 Dos Rios

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	3.71	10/22/2015 10/22/2015	Pavel Kazi

LM Start	2.34	Rating **	M	Issue No.	976
LM End	2.34	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.581226 °	37.581226 °
				-121.156175 °	-121.156175 °
DWR ID					

Action/Comments

Inspector Comments: FS_ID:22916
 DS_ID:24680
 EP_NO: N/A
 FS_HLM: 2.376
 Repair Type: Non-Urgent
 Crossing Status: Found
 UCIP Comments: No permit identified for this crossing.
 FIELD_STRUCT_DESC: 21-inch PVC irrigation pipe through the levee at an unknown depth below the crown. Pipe discharges into concrete distribution box on LS toe. Pump on pier off WS toe.
 FS Date: 09/24/2013

LM Start	2.34	Rating **	M	Issue No.	976 (cont)
LM End	2.34	Issue Type +	En	Location *	LS

Photo 1 of 3 : UCIP_FA_2015_1890.jpg



21-inch PVC irrigation pipe visible on LS shoulder.

Photo 2 of 3 : UCIP_FA_2015_1910.jpg



Inside of pipe at LS shoulder.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 2092 Dos Rios

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	3.71	10/22/2015 10/22/2015	Pavel Kazi

LM Start	2.34	Rating **	M	Issue No.	976 (cont)	
LM End	2.34	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			37.581226 °	37.581226 °	
				-121.156175 °	-121.156175 °	
DWR ID						
Action/Comments						
Inspector Comments: FS_ID:22916						
DS_ID:24680						
EP_NO: N/A						
FS_HLM: 2.376						
Repair Type: Non-Urgent						
Crossing Status: Found						

Photo 3 of 3 : UCIP_FA_2015_1911.jpg



21-inch PVC irrigation pipe visible on LS shoulder.

LM Start	2.34	Rating **	M	Issue No.	977
LM End	2.34	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.581213 °	37.581213
				-121.156175 °	-121.156175
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:20908 DS_ID:20566 EP_NO: N/A FS_HLM: 2.376 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe appears abandoned and needs to be verified as having been done so properly. FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal pipe through levee 11.0 feet below crown. Slide gate in 36-inch corrugated metal pipe riser on the waterward slope. 5'X5' Concrete distribution box on the landward side. Pump on platform in channel. Pipe filled with concrete on LS toe. Originally included in the 1961 O&M manual. FS Date: 09/24/2013					

Photo 1 of 3 : UCIP_FA_2015_1631.jpg



36-inch CMP riser on WS slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 2092 Dos Rios

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	3.71	10/22/2015 10/22/2015	Pavel Kazi

LM Start	2.34	Rating **	M	Issue No.	977 (cont)
LM End	2.34	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.581213 °	37.581213 °
				-121.156175 °	-121.156175 °
DWR ID					

Action/Comments

Inspector Comments: FS_ID:20908
 DS_ID:20566
 EP_NO: N/A
 FS_HLM: 2.376
 Repair Type: Non-Urgent
 Crossing Status: Found
 UCIP Comments: Pipe appears abandoned and needs to be verified as having been done so properly.
 FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal pipe through levee 11.0 feet below crown. Slide gate in 36-inch corrugated metal pipe riser on the waterward slope. 5'X5' Concrete distribution box on the landward side. Pump on platform in channel. Pipe filled with concrete on LS toe. Originally included in the 1961 O&M manual.
 FS Date: 09/24/2013

LM Start	2.34	Rating **	M	Issue No.	977 (cont)
LM End	2.34	Issue Type +	En	Location *	LS

Photo 2 of 3 : UCIP_FA_2015_1632.jpg



Pipe filled with concrete inside conc. distro box on LS toe.

Photo 3 of 3 : UCIP_FA_2015_1633.jpg



5x5 concrete distribuion box on LS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 2092 Dos Rios

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	3.71	10/22/2015 10/22/2015	Pavel Kazi

LM Start	2.37	Rating **	M	Issue No.	20
LM End	2.37	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.580821 °	37.580821 °
				-121.156468 °	-121.156468 °
DWR ID	DWR_RD2092_01_f_2014_20				
Action/Comments					
Pole					

No Photos

LM Start	2.40	Rating **	M	Issue No.	53
LM End	2.40	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.580436 °	37.580436 °
				-121.156783 °	-121.156783 °
DWR ID	DWR_RD2092_01_s_2014_53				
Action/Comments					
Pipe					
Inspector Comments: Pump and abandoned pipe was found.					

Photo 1 of 1 : FA_2015_RD2092_116_53_20150911_00006.jpg



A pump and an abandon pipe was found on the landside toe of the levee looking downstream.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 2092 Dos Rios

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	3.71	10/22/2015 10/22/2015	Pavel Kazi

LM Start	2.40	Rating **	M	Issue No.	978
LM End	2.40	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.580426 °	37.580426 °
				-121.156798 °	-121.156798 °
DWR ID					

Action/Comments

Inspector Comments: FS_ID:20943
 DS_ID:20567
 EP_NO: N/A
 FS_HLM: 2.441
 Repair Type: Non-Urgent
 Crossing Status: Found
 UCIP Comments: Appears abandoned and if so should be done so properly.
 FIELD_STRUCT_DESC: 24-inch corrugated metal drain pipe through levee 15.0 feet below crown. Flap gate on the waterward end. Concrete "U" headwall on the waterward end and concrete headwall on LS toe next to pump. Originally included in the 1961 O&M manual.
 FS Date: 09/24/2013

LM Start	2.40	Rating **	M	Issue No.	978 (cont)
LM End	2.40	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_FA_2015_1634.jpg



Concrete U-shaped headwall and flapgate on WS berm.

Photo 2 of 2 : UCIP_FA_2015_1635.jpg



24-inch pipe visible on WS berm.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 2092 Dos Rios

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	3.71	10/22/2015 10/22/2015	Pavel Kazi

LM Start	2.41	Rating **	M	Issue No.	979
LM End	2.41	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.580405 °	37.580405 °
				-121.156825 °	-121.156825 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:20923 DS_ID:20568 EP_NO: N/A FS_HLM: 2.443 Repair Type: Non-Urgent Crossing Status: Indicator Found					

LM Start	2.41	Rating **	M	Issue No.	979 (cont)
LM End	2.41	Issue Type +	En	Location *	LS

Photo 1 of 3 : UCIP_FA_2015_1849.jpg



Gravel on WS slope appears to indicate trench.

Photo 2 of 3 : UCIP_FA_2015_1850.jpg



Gravel on WS slope appears to indicate trench.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 2092 Dos Rios

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	3.71	10/22/2015 10/22/2015	Pavel Kazi

LM Start	2.41	Rating **	M	Issue No.	979 (cont)
LM End	2.41	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.580405 °	37.580405 °
				-121.156825 °	-121.156825 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:20923					
DS_ID:20568					
EP_NO: N/A					
FS_HLM: 2.443					
Repair Type: Non-Urgent					
Crossing Status: Indicator Found					

Photo 3 of 3 : UCIP_FA_2015_1851.jpg



Pump and 4-inch pipe visible at LS toe.

LM Start	2.61	Rating **	M	Issue No.	22
LM End	2.61	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.577387 °	37.577387 °
				-121.157133 °	-121.157133 °
DWR ID	DWR_RD2092_01_f_2014_22				
Action/Comments					
Pole					

No Photos

LM Start	2.66	Rating **	M	Issue No.	21
LM End	2.66	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.576688 °	37.576688 °
				-121.157197 °	-121.157197 °
DWR ID	DWR_RD2092_01_f_2015_21				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

Photo 1 of 1 : FA_2015_RD2092_116_21_20151023_00018.jpg



An animal hole was found landside slope of the levee.

* Location		** Rating		+ Issue Type	
LS : Land Side WS : Water Side CR : Crown		A : Acceptable M : Minimally Acceptable U : Unacceptable		Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
N/A : Not Applicable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain			

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 2092 Dos Rios

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	3.71	10/22/2015 10/22/2015	Pavel Kazi

LM Start	2.69	Rating **	M	Issue No.	23
LM End	2.69	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.576363 °	37.576363 °
				-121.157212 °	-121.157212 °
DWR ID	DWR_RD2092_01_f_2014_23				
Action/Comments					
Pole					

No Photos

LM Start	2.70	Rating **	M	Issue No.	19
LM End	2.70	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.576165 °	37.576165 °
				-121.157230 °	-121.157230 °
DWR ID	DWR_RD2092_01_s_2015_19				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

Photo 1 of 1 : FA_2015_RD2092_116_19_20150911_00005.jpg



A rodent hole was found on the landside toe of the levee looking downstream.

LM Start	2.72	Rating **	M	Issue No.	25
LM End	2.72	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.575923 °	37.575923 °
				-121.157228 °	-121.157228 °
DWR ID	DWR_RD2092_01_f_2014_25				
Action/Comments					
Pole					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 2092 Dos Rios

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	3.71	10/22/2015 10/22/2015	Pavel Kazi

LM Start	2.79	Rating **	M	Issue No.	972
LM End	3.05	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.574973 °	37.574001 °
				-121.156647 °	-121.152183 °
DWR ID	DWR_RD2092_01_s_2012_972				
Action/Comments					
Fence					
Inspector Comments: Barbed wire fence on waterside toe of the levee.					

Photo 1 of 1 : FA_2015_RD2092_116_972_20150911_00008.jpg



View of barbed wire fence along the waterward slope looking upstream.

LM Start	2.86	Rating **	M	Issue No.	980
LM End	2.86	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.574741 °	37.574741 °
				-121.155495 °	-121.155495 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:20944					
DS_ID:20570					
EP_NO: N/A					
FS_HLM: 2.903					
Repair Type: Non-Urgent					
Crossing Status: Indicator Found					
UCIP Comments: Appears abandoned and if so, should be done so properly.					
FIELD_STRUCT_DESC: 24-inch corrugated metal pipe through levee 6.5 feet below crown. Concrete "U" headwall and flap gate on the waterward end. Concrete headwall on LS slope. Originally included in the 1961 O&M manual.					
FS Date: 09/24/2013					

Photo 1 of 1 : UCIP_FA_2015_1636.jpg



Concrete headwall visible on LS slope.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain
N/A : Not Applicable		Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 2092 Dos Rios

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	3.71	10/22/2015 10/22/2015	Pavel Kazi

LM Start	3.47	Rating **	M	Issue No.	981
LM End	3.47	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.573304 °	37.573304 °
				-121.144747 °	-121.144747 °
DWR ID					

Action/Comments

Inspector Comments: FS_ID:20945
 DS_ID:20572
 EP_NO: N/A
 FS_HLM: 3.52
 Repair Type: Non-Urgent
 Crossing Status: Found
 UCIP Comments: This pipe appears abandoned and if so, should be done so properly.
 FIELD_STRUCT_DESC: 36-inch corrugated metal pipe through levee 11.0 feet below crown. Slide gate in corrugated metal pipe riser on the waterward slope. Concrete headwalls on both ends. Originally included in the 1961 O&M manual.
 FS Date: 09/24/2013

LM Start	3.47	Rating **	M	Issue No.	981 (cont)
LM End	3.47	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_FA_2015_1638.jpg



Grate over sump on LS toe.

Photo 2 of 2 : UCIP_FA_2015_1639.jpg



48-inch CMP riser on WS slope.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	